

19676350 LGESOO

### p60 ErbB1-S EGFR EXTRACELLULAR M INTRACELLULAR

p110 ErbB1-S

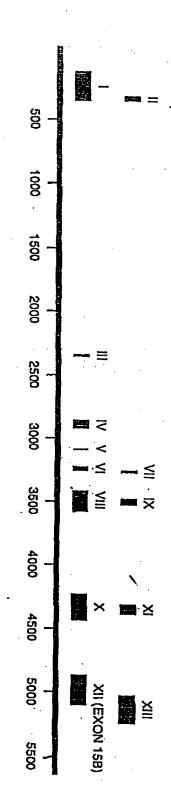
## p60 ErbB1-S

## p110 ErbB1-S

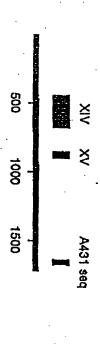
- mature product = 60 kDa encoded by 1.8 kb transcript
- Contains 381 amino acids Calculated mw = 45 kDa unique a.a: Leu and Ser minus signal peptide = 42 kDa
- encoded by 3.0 kb transcript
- mature product = 110 kDa
- Contains 681 amino acids 78 unique a.a
- Calculated mw = 77 kDa

## minus signal peptide = 75 kDa

# Alternative Exon's Located in Human EGFR Intron 15



# Alternative Exons Located In Human EGFR Intron 16



CTGPGLEGCPTNG	13 (	NA	cag ATGCACTGGGCCAGGTCTTGAAGGCTGTCCAACGAATGG	Exon 16
PLHVGRQVPKSILPISFLPLPL PVPL/TPTSS*		ŧ	TOTGTTCCCCCGCTTTTCCTTTCTGCCACCCCTGCACGTGGGCCGCCAGGTTCCCAAGAGAGTATCCTACCCATTCCTTCC	
OLLLPLSLMPSRVCSPRFSFLP	75	5022-5250	cag Agitycagcigggitiggggiggatgcagccaccitcaigccitcaigccitci gcaictgigaicaicacggccicciccigccacigagccicaigccitcaigccitc	IIIX
	1		TCATCACGGCCTCCTGCCACTGA	
SASVIITASSCH*			A CONCRETE STATE OF A CONTROL AND CONTROL OF THE STATE OF	1
<b>PSLLPSEFQLGWGGCSHLHAWP</b>		••	CTRCTCAGAGTCATCCTTAGGATGGATCCCTTCTCTTCTGCCGTCAGAGTTTC	150
NDGSVSHQSGSPAAQESCLGWI		•	CATCOTGTAATCAAAGTAATGATGGCAGCATGTCCCACCAGAGCGGGAGCCCAG	(Exon
PGNESLKAMLFCLFKLSSCNQS	78 .	4870-5107	CAR GCCAGGAAATGAGAGTCTCAAAGCCATGTTATTCTGCCTTTTTAAACTAT	IIX
SVTASC*			CTACCTTTCCCTACAAGTCTGTCACAGCTTCTTGTTAG	
PVLPLSLSSFSSRVNWSTFPYK	28	4307-4394	CAG CCCCGICCIGCCACIGICCITGICCAGCITCICTICAAGGGICAACIGGI	XI
A*			TTAGCAATCCCTATGGTTGCCCAAAAGCATTTTCAGAGCCTGCATAA	
PTSLSQLLVSNPYGCPKAPSEP	•		CTCTTCAAGGGTCAACTGGTCTACCTTTCCCTACAAGTCTGTCACAGCTTCTTG	
Paapschcpcpaslqgstglpf			CTCTCACATCCTTCTCTCCTGCAGCCCCGTCCTGCCACTGTCCTTGTCCAGCTT	;
VTEGLISVSRSPSPSDALTSFS	67	4233-4437	cng ACTIACCGAGGGCCTCATCAGCGTCAGCAGGAGCCCCTCGCCTTCTGACG	×
	İ		GGTTTCTTTAA	:
WDVLPSPFLLLKKHLQGFL*	19	3474-3534	CAG ATGGGATGTATTGCCTTCTCCATTTCTATTGTTAAAAAAACACTTACAGG	IX
			GCTGCTGA	
QSPDYSISSC*			TTTCTTIMCAACTTGTGAACAGCAGCATCAGAGCCCAGACTACAGCATAAGCA	
<b>FSISIVKETLIGVSLITCEQQH</b>		. •		
IYDVHNIPEYIVSLISQMGCIA	54	3422-3587	gag TATTTATGACGTGCACAACATTCCTGAATATATTCTCTCTC	LIIA
*	0	3266-3269		VII
MCDYIPDSEPF*		3229-3265	tay TATGTGTGATTACATICCTGATTCTGAGCCTTTTTAG	VI
8*	٦	3086-3092	cag GTCCTAA	<
WA*			CAGTGAGCATATGTTGCTGGGĆTTAG	
CASVSLHQYLYISISVSVSICC	24	2857-2932		Λī
KTII*	4	2342-2357	COG GAAAACAATCATATAA	III
PLRLTWGLAVLQ*	12	325-364	cag attictaaggttaacatggggattagctgttttgcaatga "	II
			CTGTTTTGCAATGA	
TWGLAVLQ*			CTCCAGGGGCTTTTGCGTTTCTCTCAGATTTCTAAGGTTNACATGGGGATTAG	
HRSWQLPQSPGAFAFLSRFLRL			CACAACAGGAGGGTAGGGGGACAAAAGAGCACAGGTCCTGGCAGGCTGCCACAGT	
VPGRACVVQCCTSQQEGRGTKE		`	ACTOTGCCATGCACCGTGTCCCCGGGCGGGCCTGTGTTGTGCAATGCTGCACAT	
HASSNLLVSRPQCSGNDSAMHR	. 74	139-364	CAS CCATGCCAGTAGCAACTTGCTTGTGAGCAGGCCTCAGTGCAGTGGGAATG	H
LCHPNCTYG			TACGCAGACGCCGGCCATGTGTGCCACCTGTGCCATCCAAACTGCACCTACGG	
AGVNGENNTLVWKYADAGHVCH			( )	
GPDNCIQCAHYIDGPHCVKTCP	53	AN	CAP GGACCAGACAACTGTATCCAGTGTGTGTGACAACAGAGAGAG	Exon 15
•	Acids	IVS #		ar
Translated Peptides	Amino		Alternative Exons	Seq

Exon 17	A431 seg	X	AIX				
CAB GCCTAAGATCCCGT TGCTGGTGGTGGCCCTGG GGAAGCGCACGCTGCGA	tag AAGCTACATAGTGT ACTGA	cag TGAGCTGCTAGGAC AGGGATCTTAG	CAY ACACACTGCCCAGG CAGITIGCCAGAGCAAAG CTCACCAGGAAAGAGIGG AITATACACCGAGCACCT				
CCATCGCCACTGGATGGT GGATCGGCCTCTTCATGCG GCTGCTGCAGGAGAGGGA	CTCACTTTCCAAGATCATI	ACCCAGCAGAACTTCCCC	AAAGGCAAAAGGGCTTCC! CCCTGAGAAAAGCAAGGT! TGTTACTCTCGATGGCGTC GTTTGCCATTTTGGATGTT	:			
GGGGCCCACATCGTTC	CTACAAGATGTCAGTGC	CTCCACACTGCAATCTC	TCAACATCAGCTCTGGC GAAAAGTCTTATTCAAA TAGCCAGGAATCATGGA TCCAAACATGAACCAAA				
N.A.	1633-1687	849-909	444-684				
 47	17	19	79				
PKIPSIATGMVGALLLLLV GIGLFMRRRHIVRKRTLRF ERE	SYIVSHFPRSFYKMSVH*	ELLGHPAELPHSTLQSQG	HTAQQRQKGFLQHQLWPV ALRKARLKSLIQTHQERV MASSQESWNYTPSTCLPF NMNQTSRPLCHLW*				
	17 CAN GCCTNAGATCCCGTCCATCGCCACTGGGATGGTGGGGGCCCTCCTCTTGC NA 47 TGCTGGTGGTGGCCTTGGGATCGGCCTCTTCATGGTAAGGCGCCCACATCGTTC GGAAGCGCACGCTGCGGAGGCTGCTAGGAGAGGGAGG	BOR LAS AAGCTACATAGTGTCTCACTTTCCAAGATCATTCTACAAGATGTCAGTGC 1633-1687 17 ACTGA 17 CAS GCCTAAGATCCCCGTCCATCGCCACTGGGATGGTGGGGGCCCTCCTCTTGC NA 47 TGCTGGTGGTGGCCCTCGGGATCGGCCTCCTTCATGGGAAGGCGCCACATCGTTC GGAAGCGCACGCTGCGGAGGCTGCTGCAGGADAGGGGAG GGAAGCGCACGCTGCGGAGGCTGCTGCAGGADAGGGGAG	CRY TGAGCTGCTAGGACACCCAGCAGAACTTCCCCACTCCACACTCCACATCTC 849-909 19 AGGGATCTTAG  BRY LAY AAGCTACATAGTGTCTCACTTTCCAAGATCATTCTACAAGATGTCAGTGC 1633-1687 17 ACTGA  17 CRY GCCTAAGATCCCGTCCATCGCCACTGGGAATGGTGGGGCCCTCCTCTTGC NA 47 TGCTGGTGGTGGCCCTTGGGGATCGCCCTCTTCATTGCTAGAGCGCCCACATCGTTC GGAAGCGCACGCTGCGGAGGCTGCTGCAGGAAGGGGAG  GGAAGCGCACGCTGCGGAGGCTGCTGCAGGAAGGGGAG  18 19 19 19 19 19 19 19 19 19 19 19 19 19	CAGACACTGCCCAGAAAAGGCTTCCTTCAAAAAGTCTTCAACATCAGCTCTCAGCTCTCAGCACAAAAGCCCTGAGAAAAAGGCTTTCTTAAAAAGTCTTATTCAAAAGCCTTGAGAAAAAGGCTTTATTCAAAAAGTCTTATTCAAAAGCCTTGAGAAAAAGTCTTAATTCATAAAAGTCTTATTCAAAAAGTCTTATTCAAAAAGTCTTAATACATCGAAAAAAAA	CARY ACACACTGCCCAGCAAAAGGCAAAAAGGCTTCCTTCAACATCAGCTCTGGC 444-684 79 CAGTTTGCCAGGAAAAAGCCATAAAGGCCTTCCTTGATGAAAAACATCAGCATCATGAA CTTCCAGGAACAAAAGCATTGTTTGCAATTGTTTTCCAAAACATCATGAA ATTATACACCGAGCACCTGTTTGCCATTTTTGGATTGTTCCAAAACATCATGAA CTTCCAGGCCCCTCTGCCATCTCTCGGTAA CTTCCAGGCCCCTCTGCCATCTCTCGGATGTTTCCCAAAACATCATCAAA CTTCCAGGCCCTCTAGGACACCCCAGCAACTTCCCAACACTCCAAAACCTACAAA AGGGATCTTAG  seg tag ACACACTGCCAACACTTCCCAAGATCATCAACATCATCAAA CTTCCAAGCCTTAAGATCCTCCAACTTTCCAAGATCATCAAACATCATCAAA CTTCCAAGATCTTAGGACTCCAACTTTCCAAGATCATCCTACAAGATGTCAATCTC 1633-1687 17 ACTGA 17 cag GCCTMAGATCCCCGTCCACCTTCCAAGATCGTGCGAAGGCCCCACATCGTTC GGAAGCCGTGCGGGATCGGCCACCTTCCATGGGAATGGGGAGCCCCCACATCGTTC GGAAGCCGCACCTTGCGGAAGATGAAGAGGGGCCCACATCGTTC GGAAGCCGCACCTTGCGGAATCCTTCCAAGAAGAGGGGCCCACATCGTTC GGAAGCCGCACCTTGCGGAAGAGAGAGAGAGAGAGAGAGA	CAGT ACACACTGCCCAGCAAAGGCAAAAGGCTTCCTTCAACATCAACTCTCGCC 444-684 79 CAGTTTGCCAGAGAAAAGCCCTGAGAAAAAGCTTTGATTGA	CAG ACACACTGCCCAGCAAAGGCATAAAGGCTTCCTTCAACATCAGCTCTGGC 444-684 79 CAGTTTGCCAGAACAAAGCCCTGCAGAAAAAGGGCTTCCTTC

## Co-expression of p170 and p110 EGFR in Chinese Hamster Ovary Cells

## Protein Expression

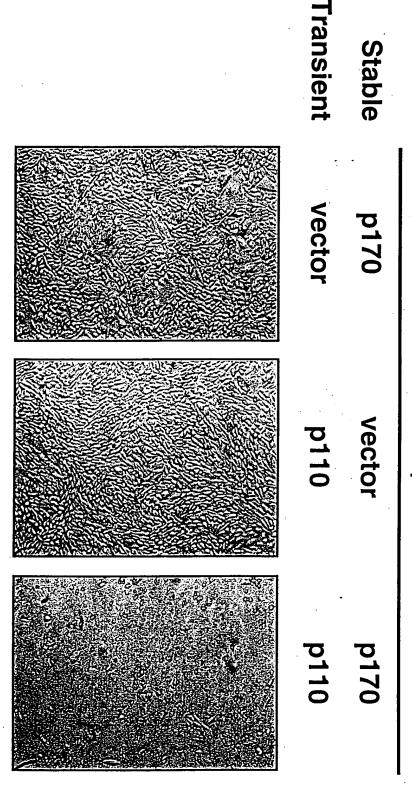
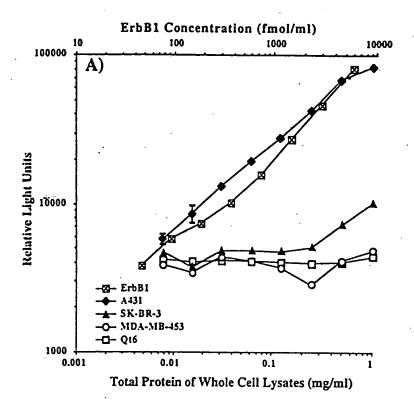


FIGURE 5

DOMFAC. COESCO

FIGURE 6



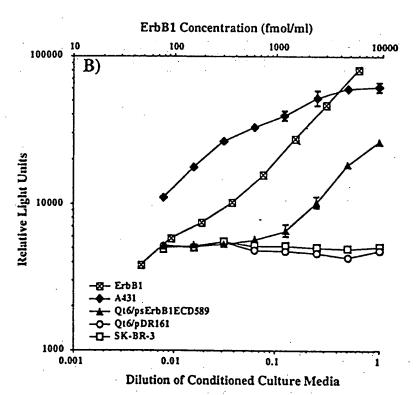


FIGURE 7

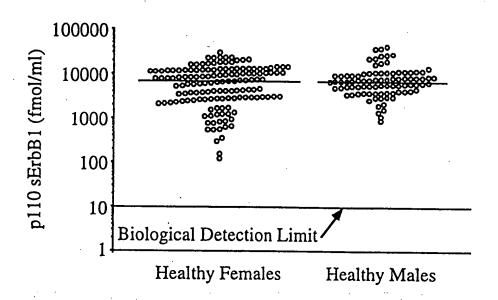
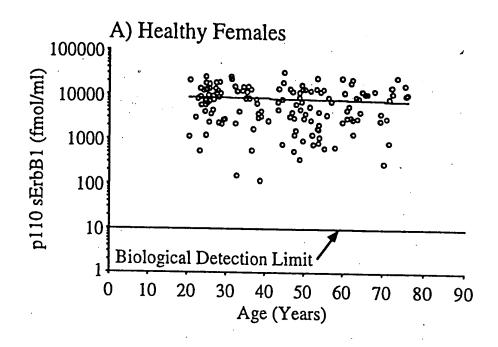


FIGURE 8



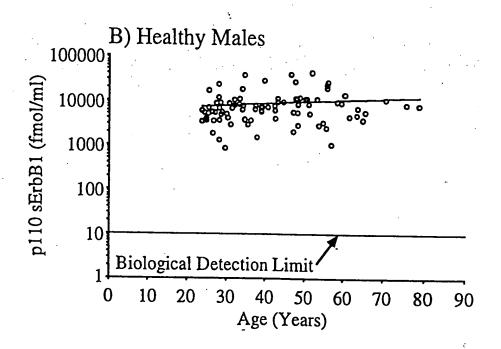


FIGURE 9

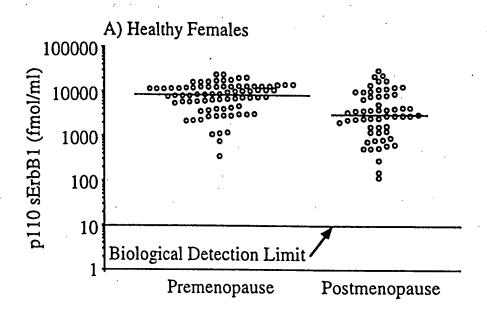


FIGURE 10

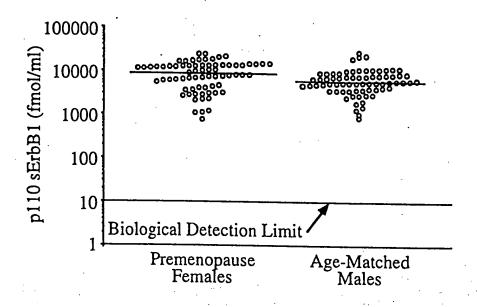
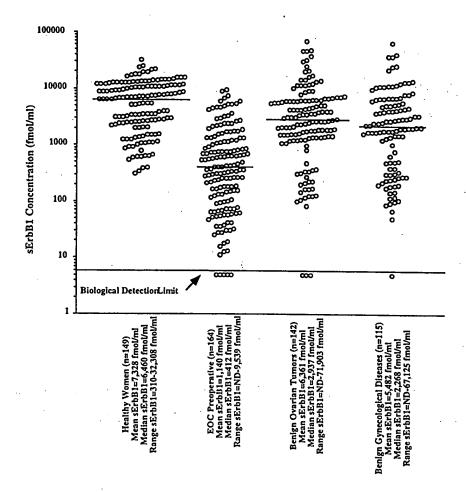


FIGURE 11



Serum sErbB1 levels in healthy women, patients with EOC, benign ovarian tumors, and other benign gynecological diseases as measured by ALISA and compared. Serum samples with sErbB1 levels below the inter-assay biological detection limit (horizontal line with arrow) of 5.89 fmol/ml were arbitrarily assigned values of 5.0 fmol/ml for graphing purposes. Each data point represents the median of the mean sErbB1 concentration for one serum sample tested in duplicate from a minimum of three separate assays. The median sErbB1 concentration for each group of patients is indicated by the horizontal line.

